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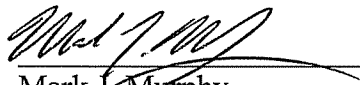
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in the following listed application(s) or patent(s) for which the issue fee has been paid.

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(12) **United States Patent**
Koyama

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(54) **EL DISPLAY DEVICE AND ELECTRONIC DEVICE**

(75) **Inventor:** Jun Koyama, Kanagawa (JP)

(73) **Assignee:** Semiconductor Energy Laboratory Co., Ltd. (JP)

(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 19 days.

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(58) **Field of Classification Search** 345/45,
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257/72

See application file for complete search history.

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(57) **ABSTRACT**

In an EL display device in which color purity of each of red, blue and green is different, the EL display device displaying an image of a desired balance of red, blue and green is provided. A video signal supplied to each EL element is gamma (γ)-corrected by a correction circuit, the color purity of each of blue luminescence, green luminescence, and red luminescence is suitably controlled in accordance with the voltage and current of the corrected video signal.

24 Claims, 9 Drawing Sheets

